



Robert Greene Sterne
Edward J. Kessler
Jorge A. Goldstein
David K.S. Cornwell
Robert W. Esmond
Tracy-Gene G. Durkin
Michele A. Cimbala
Michael B. Ray
Robert E. Sokohl
Eric K. Steffe
Michael Q. Lee
Steven R. Ludwig
John M. Covert
Linda E. Alcorn
Robert C. Millonig
Donald J. Featherstone
Lawrence B. Bugaisky
Michael V. Messinger

Judith U. Kim
Timothy J. Shea, Jr.
Patrick E. Garrett
Heidi L. Kraus
Edward W. Yee
Albert L. Ferro*
Donald R. Banowitz
Peter A. Jackman
Teresa U. Medler
Jeffrey S. Weaver
Kendrick P. Patterson
Vincent L. Capuano
Eldora Ellison Floyd
Thomas C. Fiala
Brian J. Del Buono
Virgil Lee Beaston
Kimberly N. Reddick
Theodore A. Wood

Elizabeth J. Haanes
Joseph S. Ostroff
Frank R. Cottingham
Christine M. Lhulier
Rae Lynn Prengaman
Jane Shershenovich*
George S. Bardmesser
Daniel A. Klein*
Jason D. Eisenberg
Michael D. Specht
Andrea J. Kamage
Tracy L. Muller*
LuAnne M. DeSantis
John J. Figueroa
Ann E. Summerfield
Tiera S. Coston
Aric W. Ledford*
Jessica L. Parezo

Timothy A. Doyle*
Gaby L. Longworth*
Nicole D. Dretar*
Ted J. Ebersole
Jyoti C. Iyer*
Registered Patent Agents*
Karen R. Markowicz
Nancy J. Leith
Helene C. Carlson
Matthew J. Dowd
Aaron L. Schwartz
Katrina Y. Pei Quach
Bryan L. Skelton
Robert A. Schwartzman
Teresa A. Colella
Jeffrey S. Lundgren
Victoria S. Rutherford

Eric D. Hayes
Michelle K. Holoubek
Robert H. DeSelms
Simon J. Elliott
Julie A. Heider
Mita Mukherjee
Scott M. Woodhouse

Of Counsel
Kenneth C. Bass III
Evan R. Smith
Marvin C. Guthrie

*Admitted only in Maryland
*Admitted only in Virginia
*Practice Limited to
Federal Agencies

April 12, 2004

WRITER'S DIRECT NUMBER:
(202) 772-8625

INTERNET ADDRESS:
ESTEFFE@SKGF.COM

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Art Unit 1614

Re: U.S. Utility Patent Application
Application No. 10/648,786; Filed: August 27, 2003
For: **Death Domain Containing Receptor 4**
Inventors: Ni *et al.*
Our Ref: 1488.130000B/EKS/MEK

Sir:

Transmitted herewith for appropriate action are the following documents:

1. Information Disclosure Statement Under 37 C.F.R. § 1.97(b);
2. Form PTO-1449 (6 pages) listing the cited documents;
3. Copies of documents AR1, AS1, AT1, AR2, AS2, AT2, AR3, AS3, AT3, and AR4;
4. First Supplemental Information Disclosure Statement Under 37 C.F.R. § 1.97(b);
5. Form PTO-1449 (2 pages) listing the cited documents;
6. Copies of documents AS6, AT6, and AS7; and
7. A return postcard.

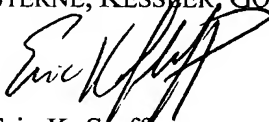
It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

Commissioner for Patents
April 12, 2004
Page 2

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Eric K. Steffe
Attorney for Applicants
Registration No. 36,688

EKS/MEK/tts
Enclosures

249920v1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



In re application of:

Ni *et al.*

Appl. No. 10/648,786

Filed: August 27, 2003

For: **Death Domain Containing
Receptor 4**

Confirmation No. 5264

Art Unit: 1614

Examiner: *To Be Assigned*

Atty. Docket:
1488.130000B/EKS/EJH/M-K

Information Disclosure Statement under 37 C.F.R. § 1.97(b)

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. Copies of documents AA1 to AH1, AL1 to AP1, AL2 to AP2, AL3 to AN3, and AS4 to AR6 were cited by or submitted to the Office in an Information Disclosure Statement that complies with 37 C.F.R. § 1.98(a)-(c) in Application No. 09/565,918, filed May 5, 2000, which is relied upon for an earlier filing date under 35 U.S.C. § 120. Thus, copies of these documents are not attached. 37 C.F.R. § 1.98(d). Copies of documents AR1 to AR4 are provided.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. No statement or fee is required.

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

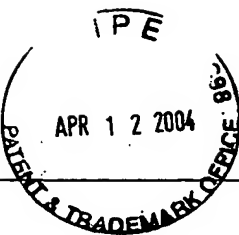
STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Eric K. Steffe
Attorney for Applicants
Registration No. 36,688

Date: 7/9/04

1100 New York Avenue, N.W.
Washington, D.C. 20005-3934
(202) 371-2600



FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1488.130000B/EKS/EJH/M-K	APPLICATION NO. 10/648,786
	APPLICANT Ni et al.	
	FILING DATE August 27, 2003	GROUP 1614

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA1	4,002,531	01/11/1977	Royer			01/22/1976
	AB1	4,946,778	08/07/1990	Ladner et al.			01/19/1989
	AC1	5,349,053	09/20/1994	Landolfi			06/10/1993
	AD1	5,447,851	09/05/1995	Beutler et al.			04/02/1992
	AE1	5,478,925	12/26/1995	Wallach et al.			08/07/1992
	AF1	5,530,101	06/25/1996	Queen et al.			12/19/1990
	AG1	5,565,332	10/15/1996	Hoogenboom et al.			09/23/1992
	AH1	5,807,715	09/15/1998	Morrison et al.			06/27/1994
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL1	WO 91/06570	05/16/1991	WIPO			Yes No
	AM1	WO 91/09967	07/11/1991	WIPO			Yes No
	AN1	CA 2,045,869	12/29/1991	Canada			Yes No
	AO1	EP 0 239 400 B1	08/03/1994	Europe			Yes No
	AP1	WO 95/06058	03/02/1995	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
✓	AR	<u>1</u>	Chinnaiyan et al., "Signal Transduction by DR3, a Death Domain-Containing Receptor Related to TNFR-1 and CD95," <i>Science</i> 24:990-992, American Association for the Advancement of Science (November 1996)
:	AS	<u>1</u>	Delgado et al., "The Uses and Properties of PEG-Linked Proteins," <i>Crit. Rev. Thera. Drug Carrier Sys.</i> 9:249-304, Begell House (1992)
'	AT	<u>1</u>	Goodman, J.W., "Immunogens & Antigens," in <i>Basic & Clinical Immunology</i> , Stites et al., eds., Appleton & Lange, Norwalk, CT, pp. 20-27 (1988)

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1488.130000B/EKS/EJH/M-KAPPLICATION NO.
10/648,786APPLICANT
Ni et al.FILING DATE
August 27, 2003GROUP
1614

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL2	EP 0 401 384 B1	03/13/1996	Europe			Yes No
	AM2	WO 97/01633	01/16/1997	WIPO			Yes No
	AN2	WO 98/30693	07/16/1998	WIPO			Yes No
	AO2	EP 0 857 782 A2	08/12/1998	Europe			Yes No
	AP2	WO 98/41629	09/24/1998	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>2</u>	Huston et al., "Protein Engineering of Single-Chain Fv Analogs and Fusion Proteins," <i>Methods in Enzymology</i> 203:46-88, Academic Press (1991)
	AS	<u>2</u>	Morpurgo et al., "Covalent Modification of Mushroom Tyrosinase with Different Amphiphic Polymers for Pharmaceutical and Biocatalysis Applications," <i>Appl. Biochem. Biotechnol.</i> 56:59-72, Humana Press (January 1996)
	AT	<u>2</u>	Morrison, S.L. "Transfectomas Provide Novel Chimeric Antibodies," <i>Science</i> 229:1202-1207, American Association for the Advancement of Science (1985)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1488.130000B/EKS/EJH/M-K	APPLICATION NO. 10/648,786
	APPLICANT Ni et al.	
	FILING DATE August 27, 2003	GROUP 1614

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL3	WO 99/02653	01/21/1999	WIPO			Yes No
	AM3	WO 99/11791	03/11/1999	WIPO			Yes No
	AN3	WO 99/37684	07/29/1999	WIPO			Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
AR	<u>3</u>	Pan, G. et al., "The Receptor for the Cytotoxic Ligand Trail," <i>Science</i> 276:111-113, American Association for Advancement of Science (April 1997)	
AS	<u>3</u>	Roguska et al., "Humanization of murine monoclonal antibodies through variable domain resurfacing," <i>Proc. Natl. Acad. Sci. USA</i> 91:969-973, National Academy of Science (1994)	
AT	<u>3</u>	Ruf et al., "Structure and Expression of the Gene Coding for the Alpha-Subunit of DNA-Dependent RNA Polymerase from the Chloroplast Genome of Zea Mays," <i>Nucl. Acids Res.</i> 16:5741-5754, IRL Press (1988)	

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.	

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1488.130000B/EKS/EJH/M-KAPPLICATION NO.
10/648,786APPLICANT
Ni et al.FILING DATE
August 27, 2003GROUP
1614

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>4</u>	Wiley, S.R. et al., "Identification and Characterization of a New Member of the TNF Family that Induces Apoptosis," <i>Immunity</i> 3:673-682, Cell Press (1995)
	AS	<u>4</u>	Database, EMBL Nucleic Acid DB EBI, Accession No. AA100865, Hillier et al., (October 1996)
	AT	<u>4</u>	GenBank Accession No. W65310, zd33e01.rl Soares fetal heart NbHH19W Homo Sapiens cDNA clone 342456 5' similar to contains Alu repetitive element, NCBI National Library of Medicine Database, Bethesda, MD, USA, accessed 1/8/99, (October 1996)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1488.130000B/EKS/EJH/M-K	APPLICATION NO. 10/648,786
	APPLICANT Ni et al.	
	FILING DATE August 27, 2003	GROUP 1614

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>5</u>	NCBI Entrez, GenBank Report, Accession No. AA150849, from Hillier, L., et al. (December 1996)
	AS	<u>5</u>	NCBI Entrez, GenBank Report, Accession No. AA102745, from Hillier, L., et al. (October 1996)
	AT	<u>5</u>	NCBI Entrez, GenBank Report, Accession No. AA102746, from Hillier, L., et al. (October 1996)

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1488.130000B/EKS/EJH/M-K	APPLICATION NO. 10/648,786
	APPLICANT Ni et al.	
	FILING DATE August 27, 2003	GROUP 1614

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>6</u>	NCBI Entrez, GenBank Report, Accession No. AA102383, from Hillier, L., et al. (October 1996)
	AS		
	AT		

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.